

Fig 7.1 Fault Finding Flowchart - Part 1

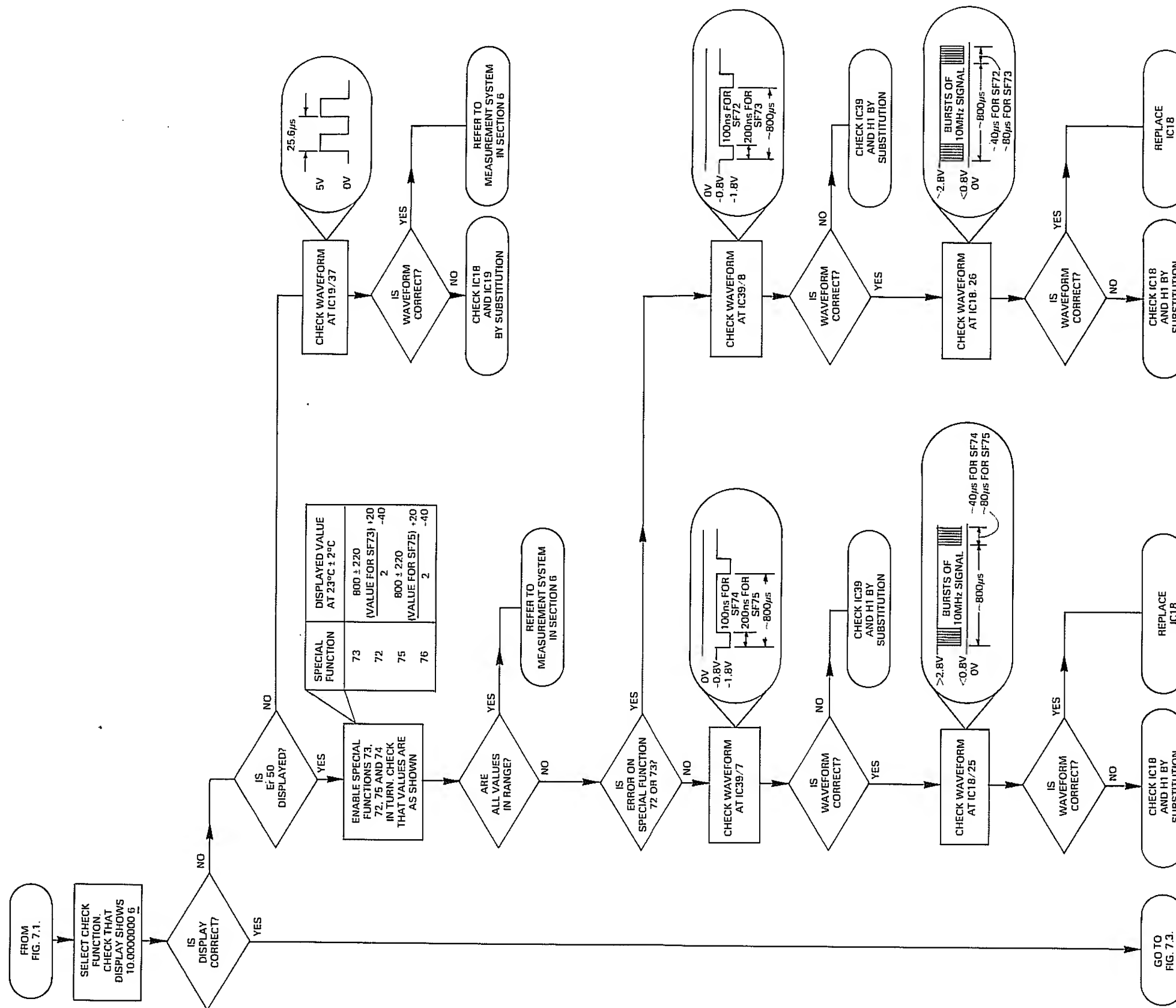


Fig 7.2 Fault Finding Flowchart - Part 2

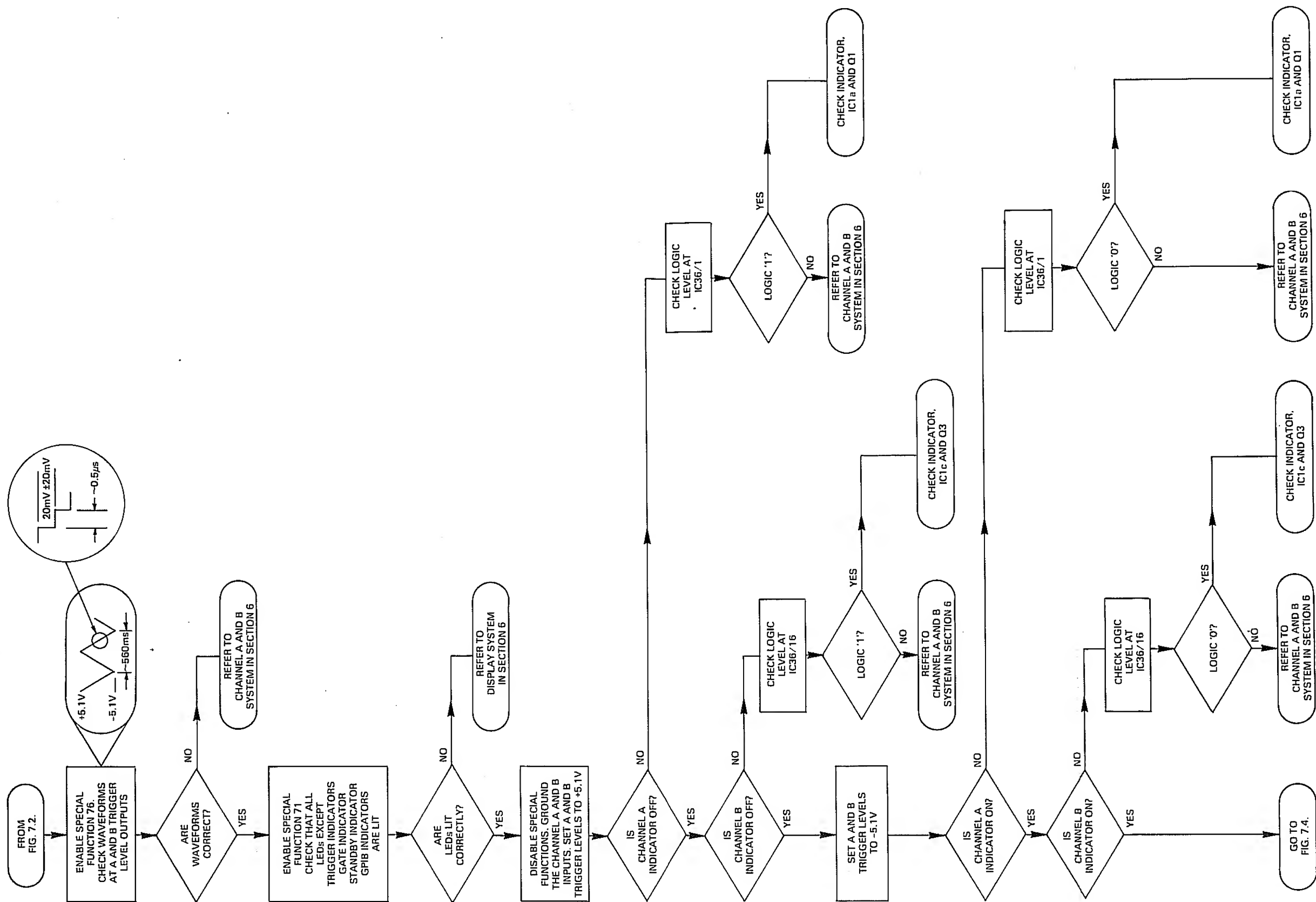


Fig 7.3 Fault Finding Flowchart - Part 3

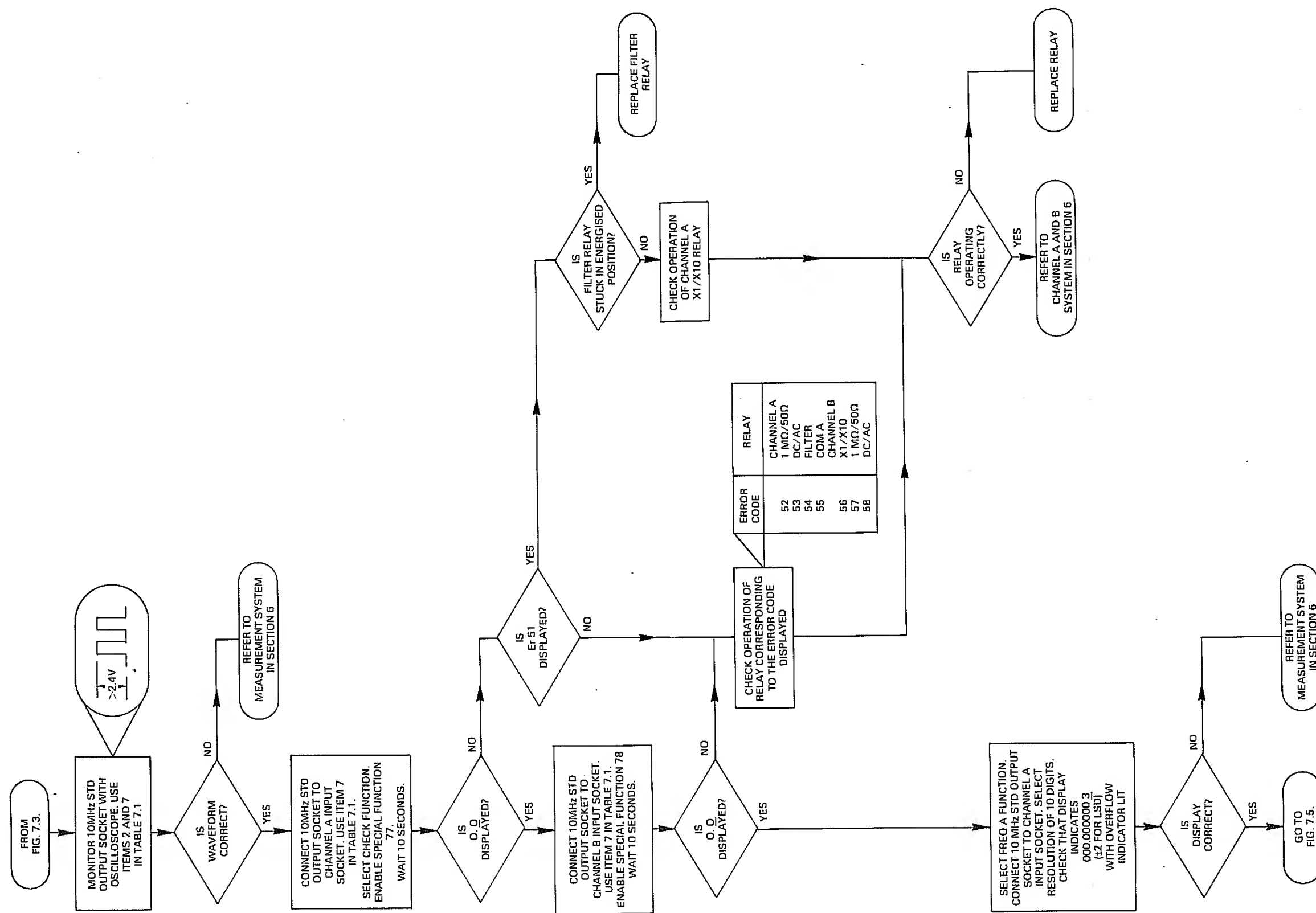


Fig 7.4 Fault Finding Flowchart - Part 4

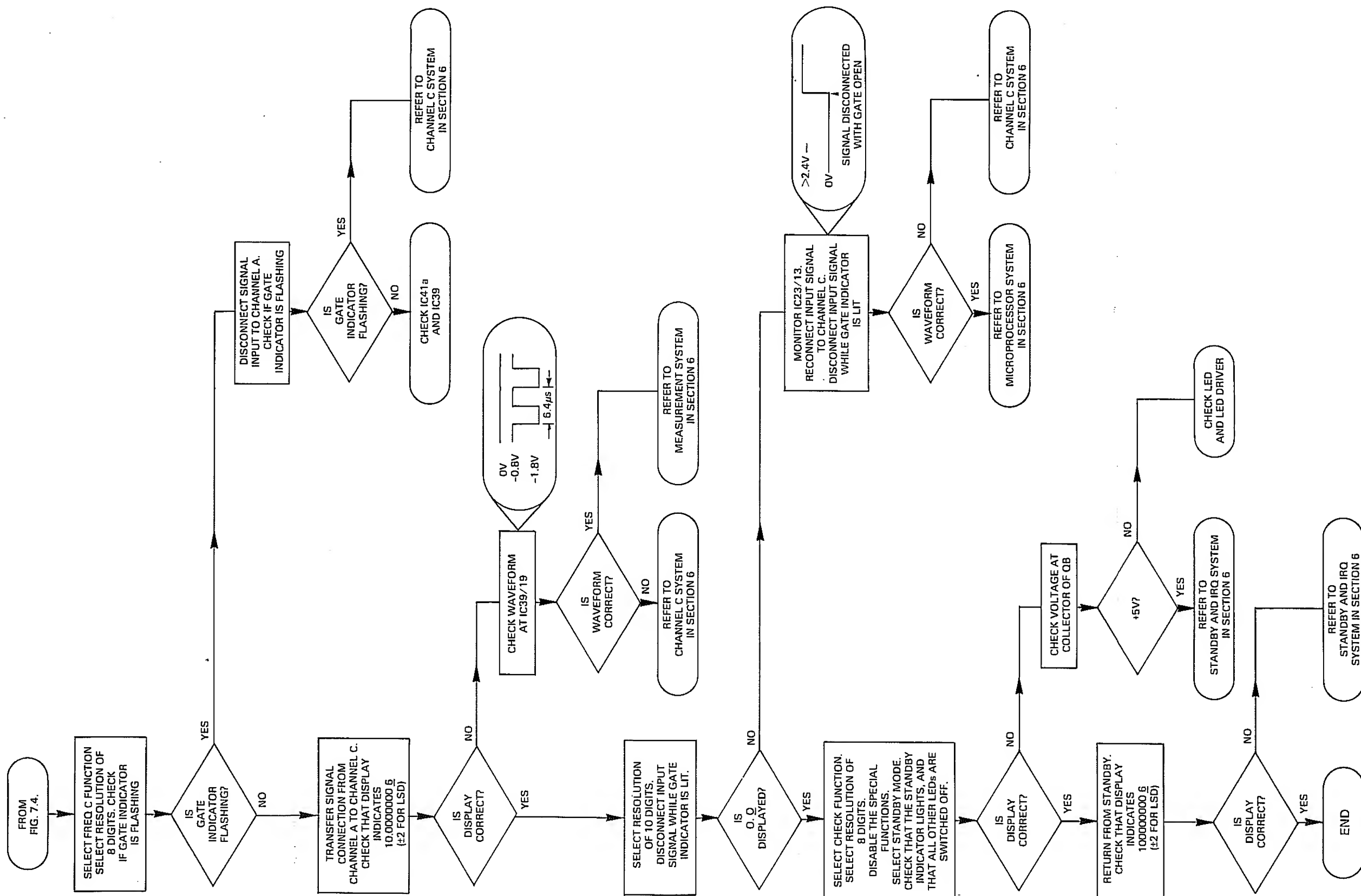


Fig 7.5 Fault Finding Flowchart - Part 5

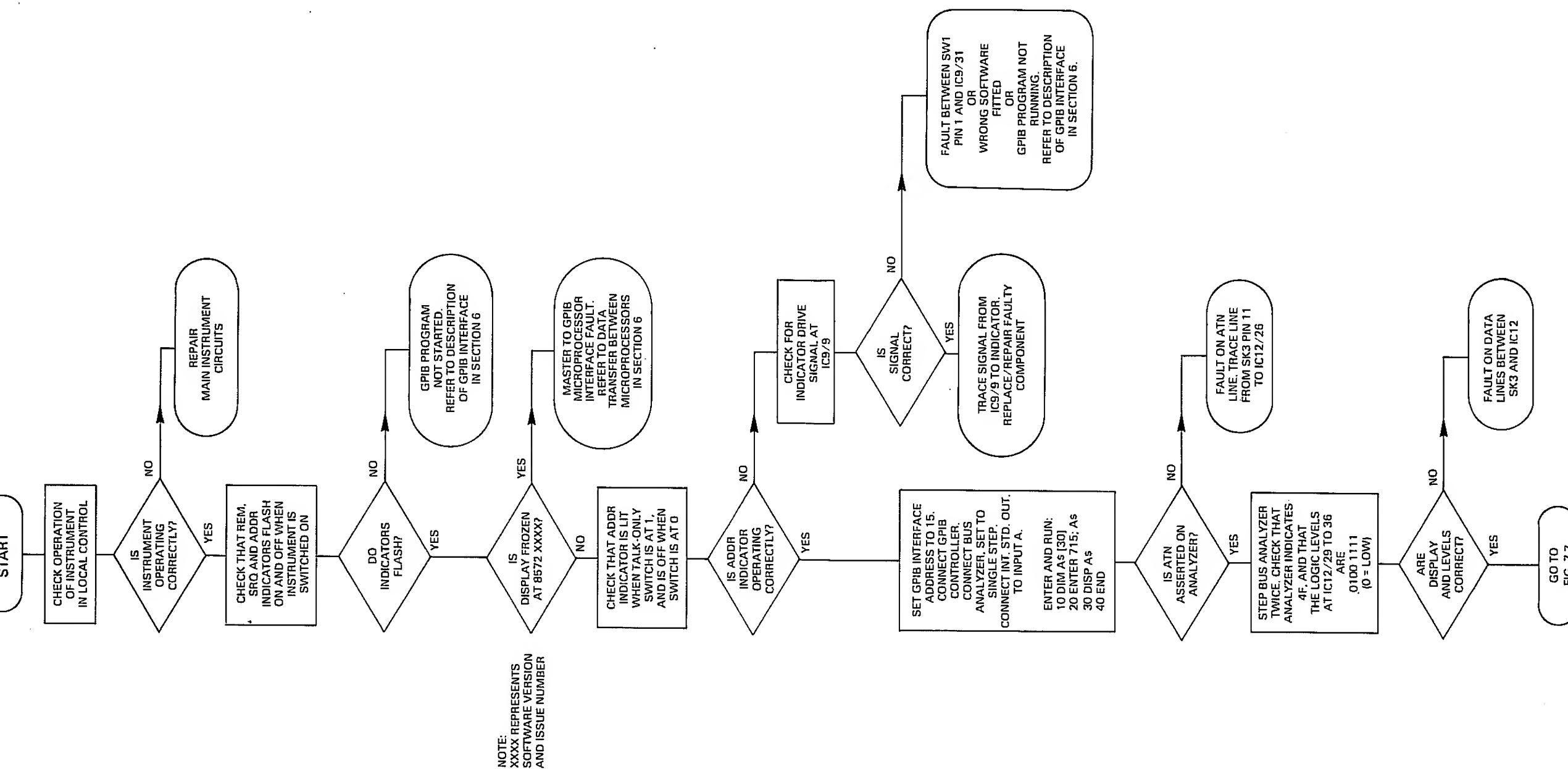


Fig 7.6 Fault Finding Flowchart - GPIB Part 1

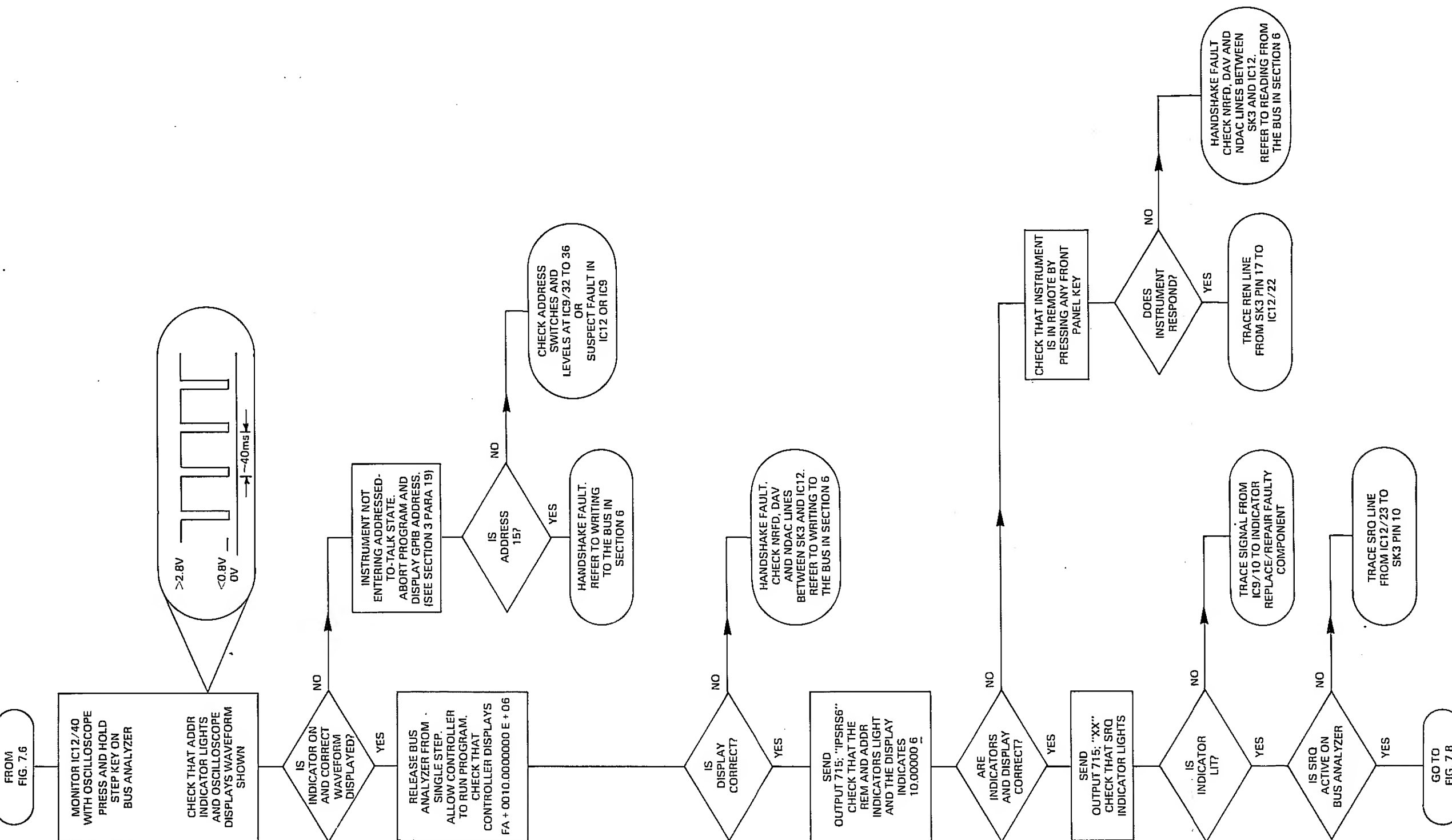


Fig 7.7 Fault Finding Flowchart - GPIB Part 2

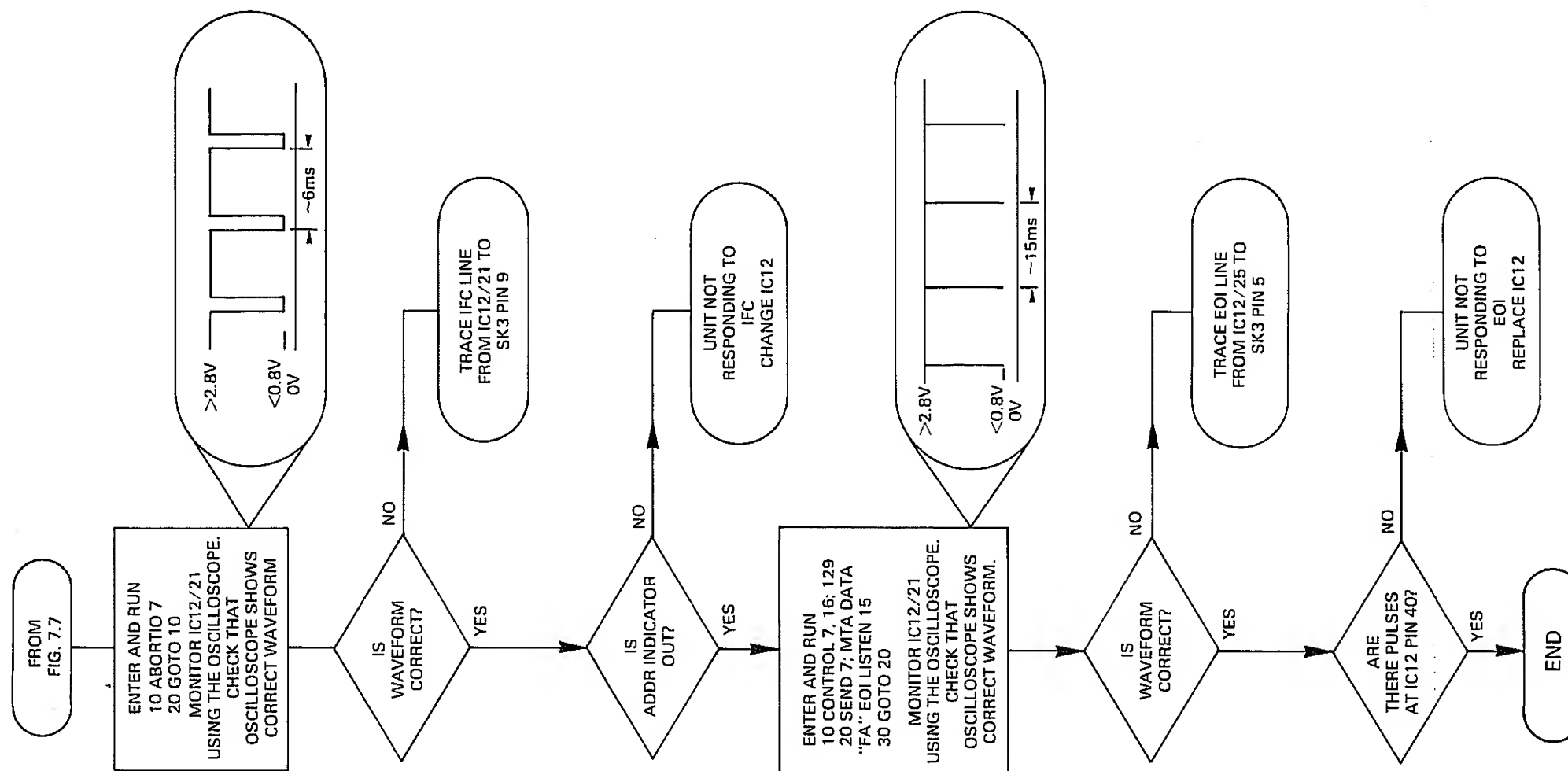
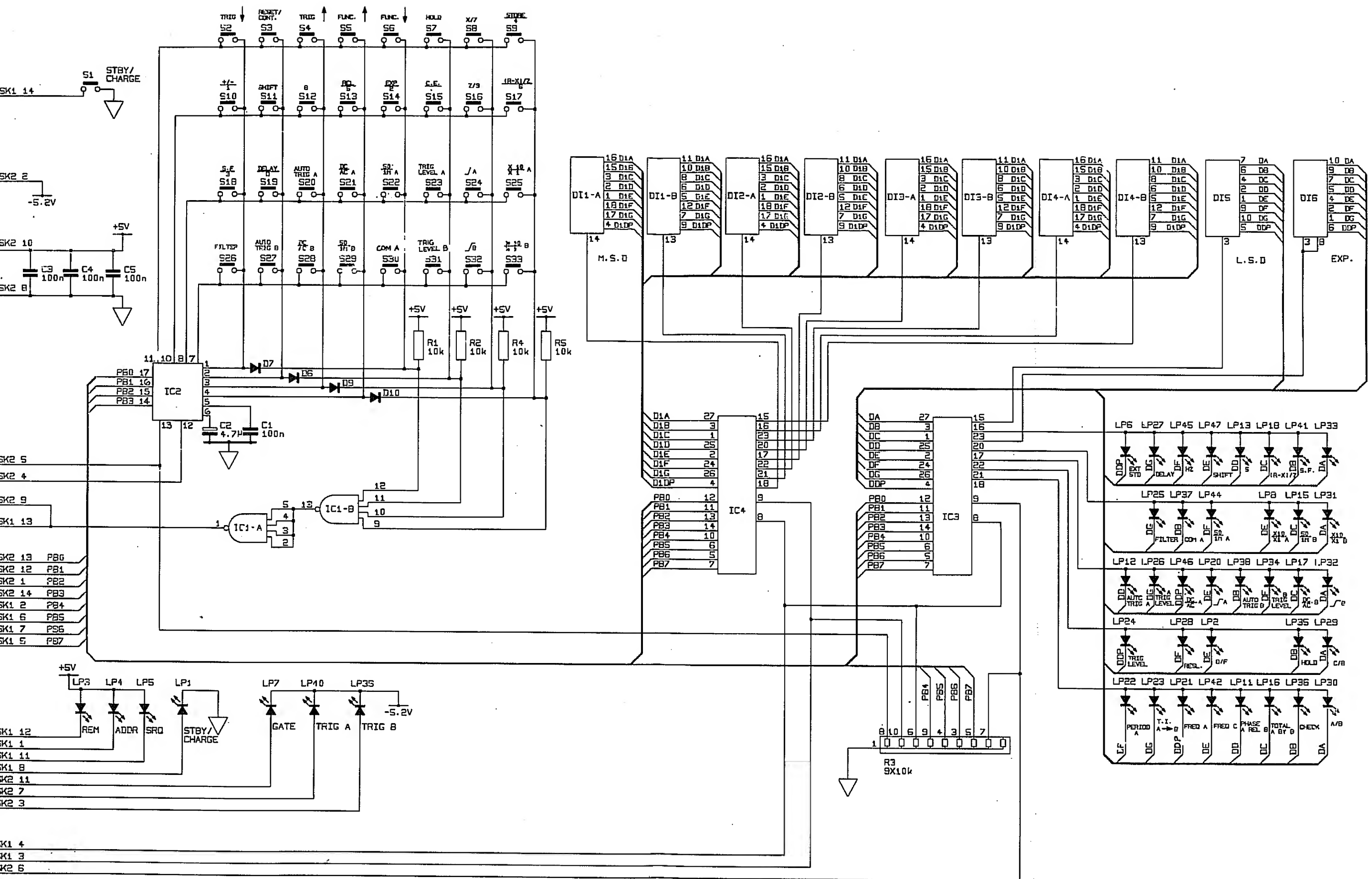


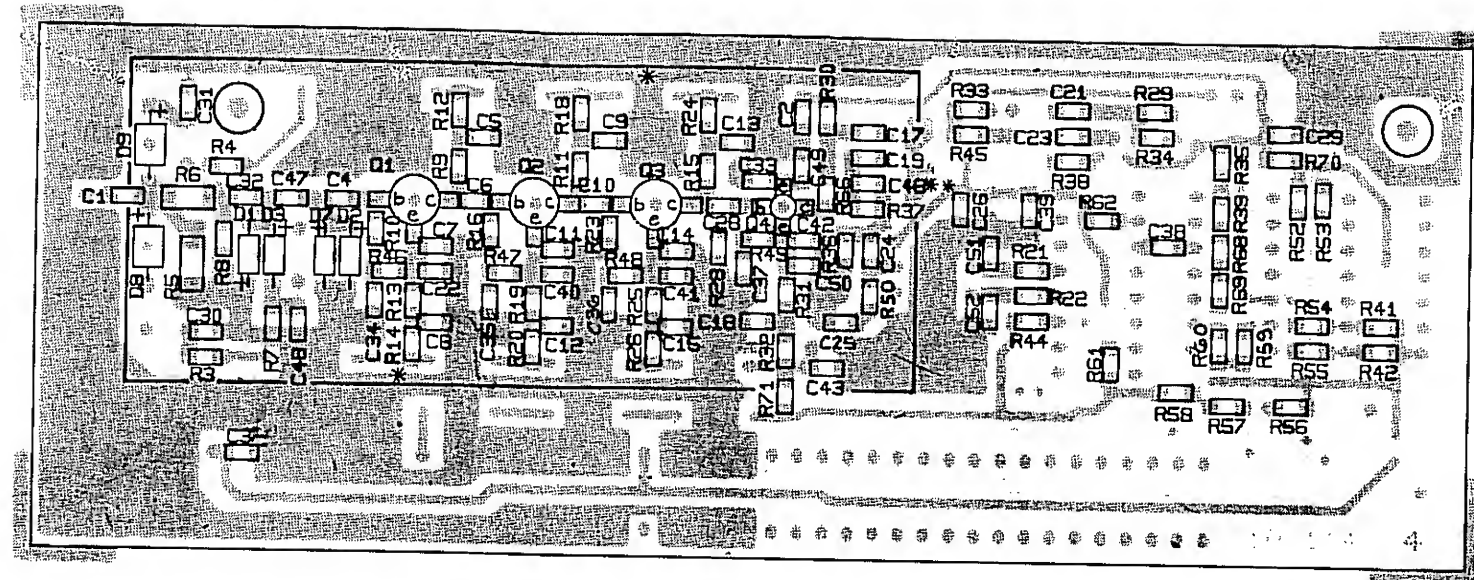
Fig 7.8 Fault Finding Flowchart - GPIB Part 3



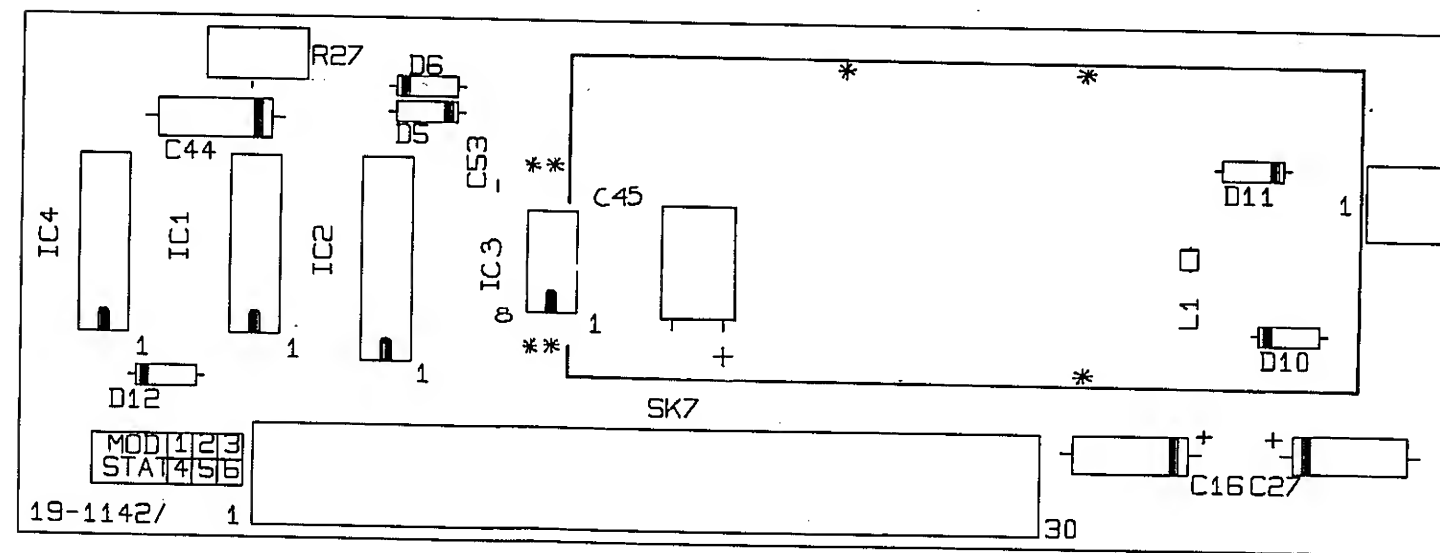


Circuit Diagram:  
Display Board Assembly 19-1141 Fig.3

TRACKSIDE VIEW

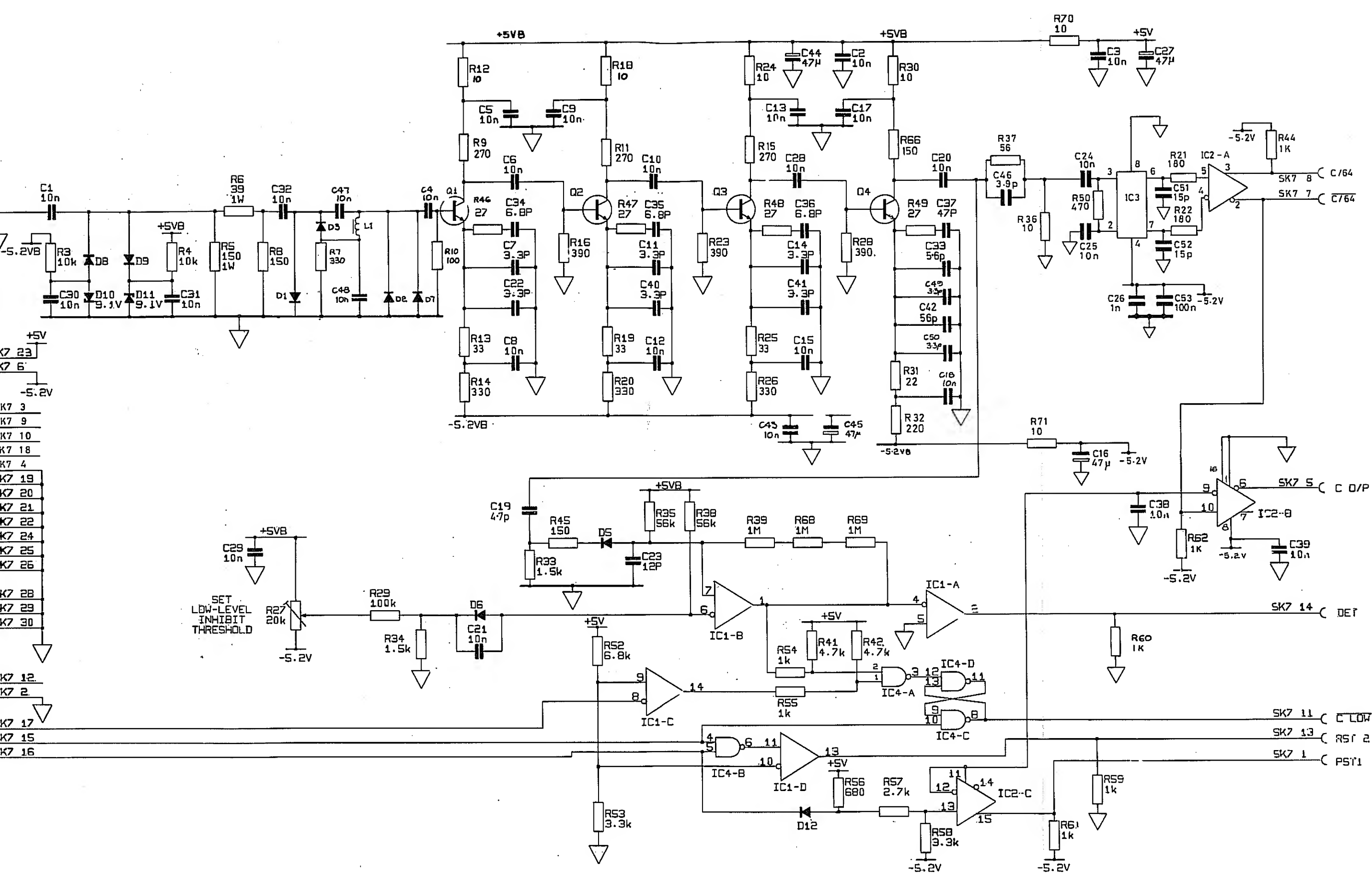


COMPSIDE VIEW

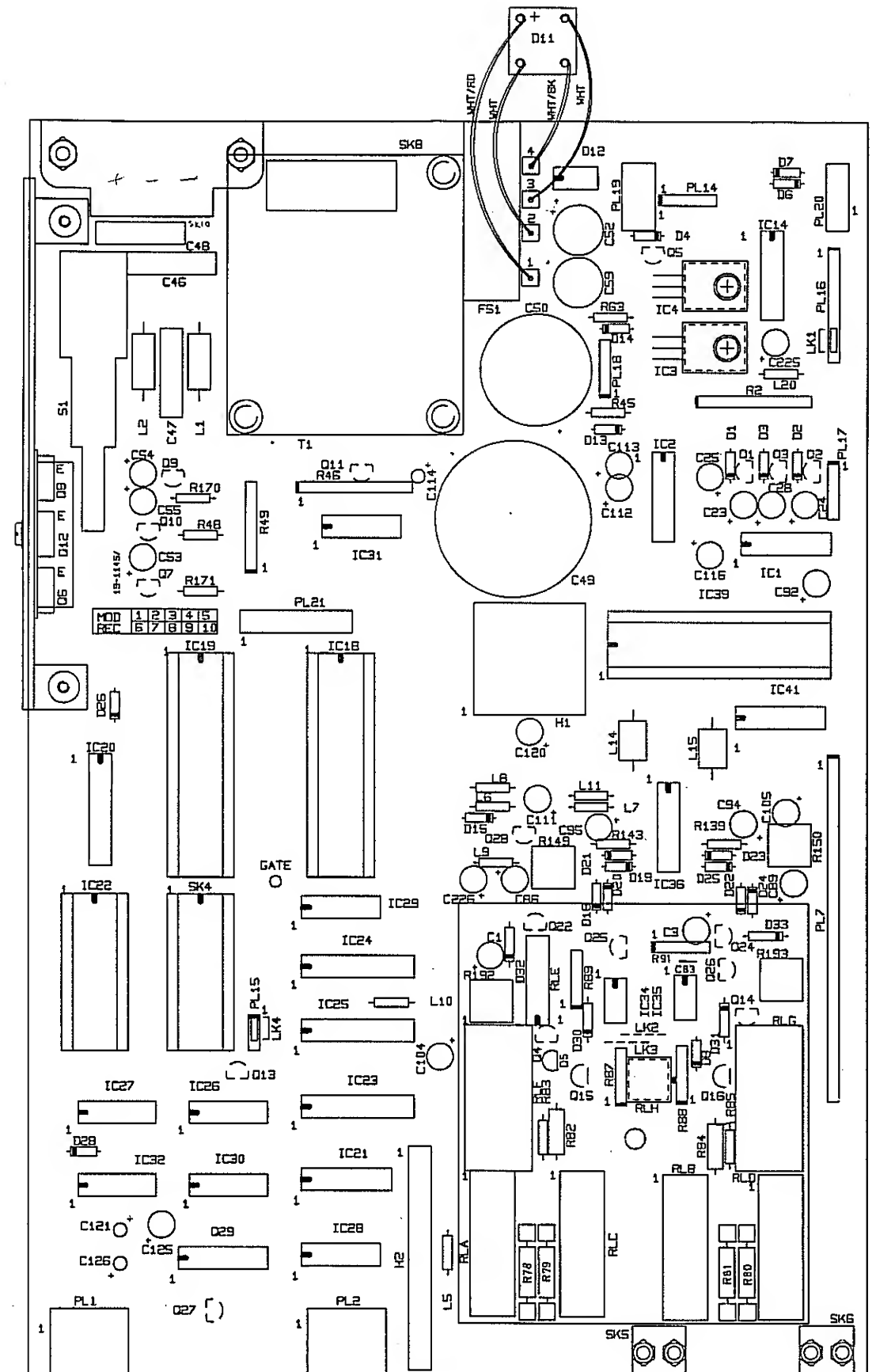
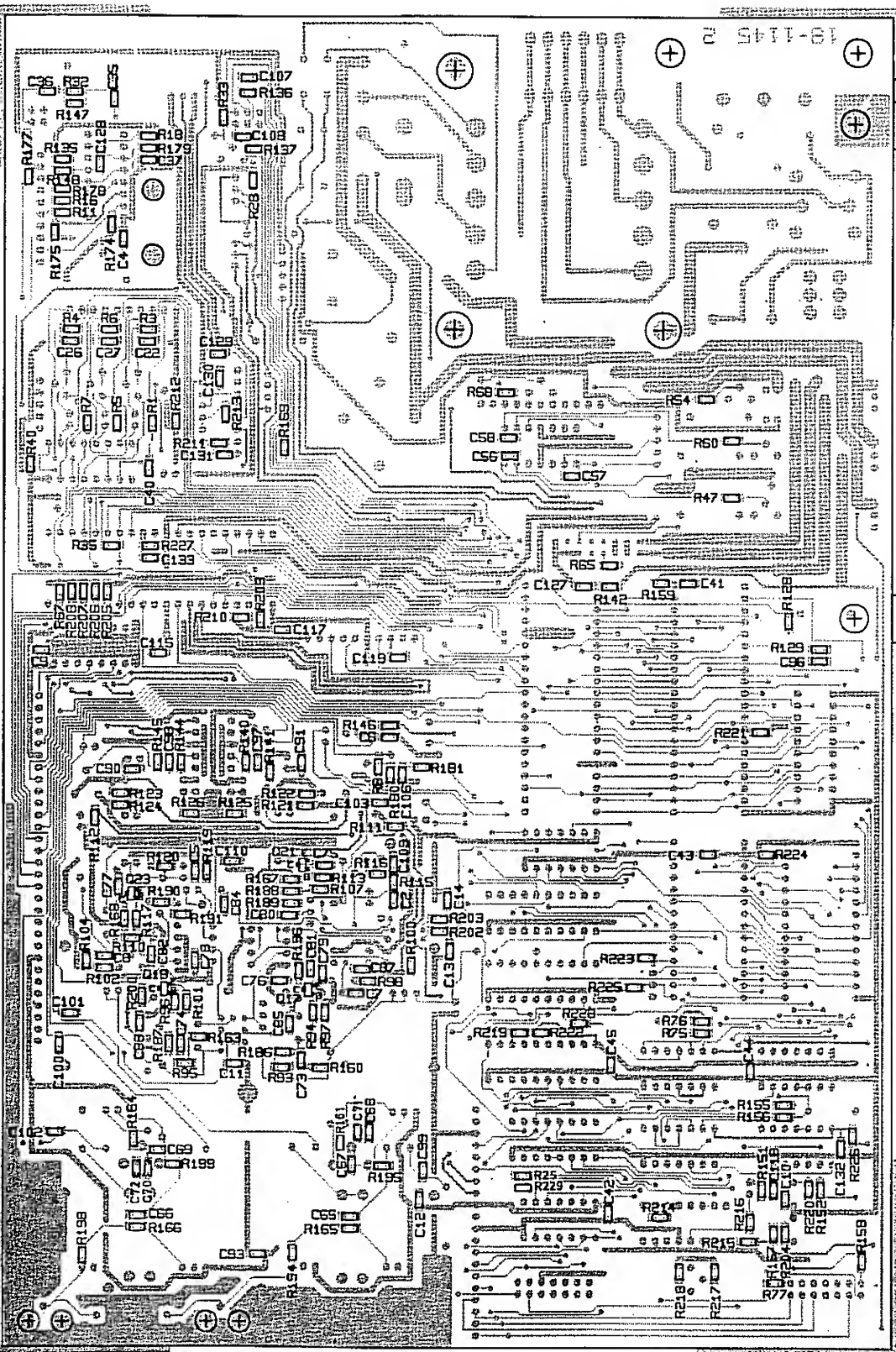


Component Layout:  
Channel C Assembly 19-1142

Fig.4

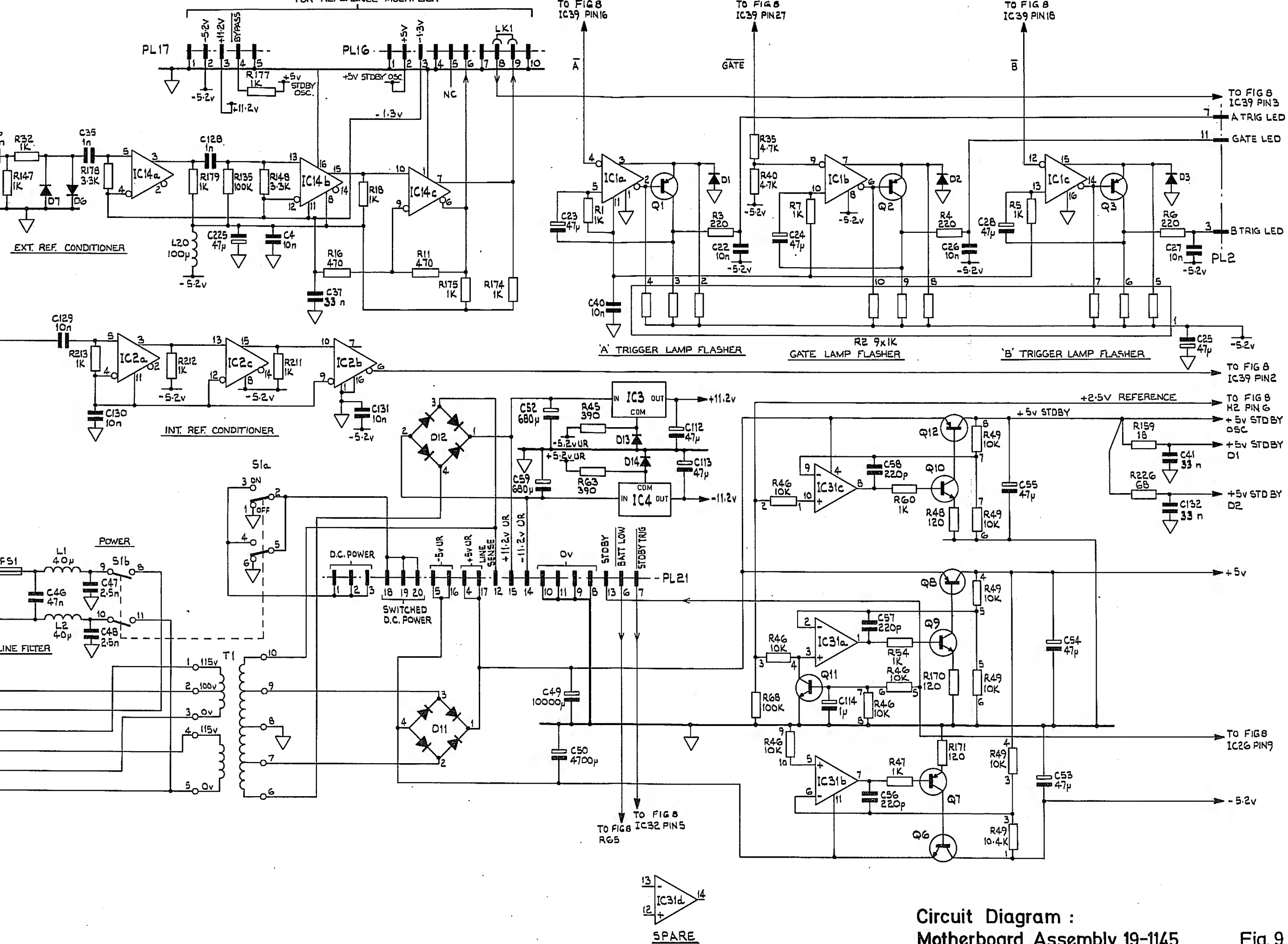


Circuit Diagram :  
Channel C Assembly 19-1142



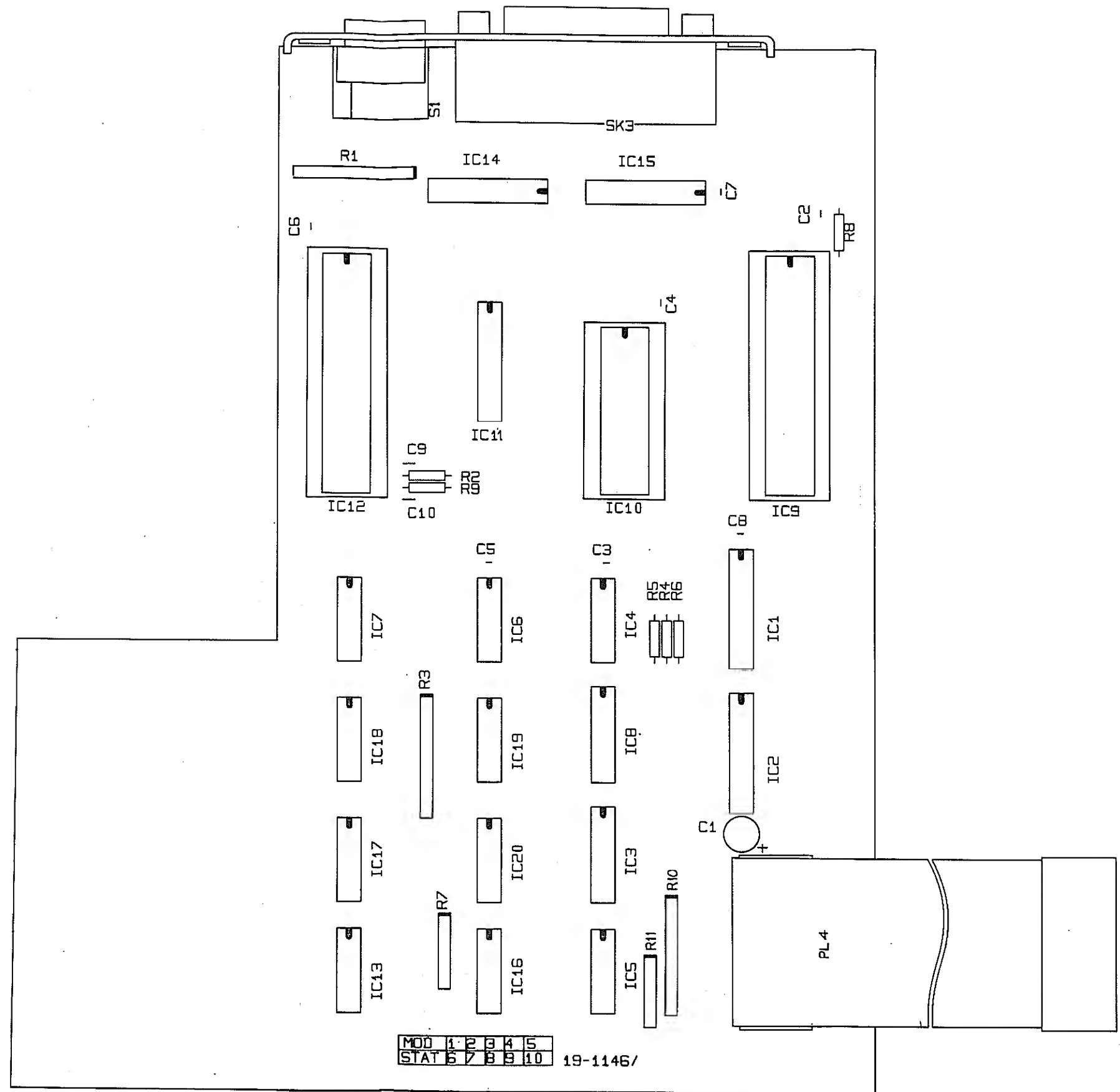






Circuit Diagram :  
Motherboard Assembly 19-1145







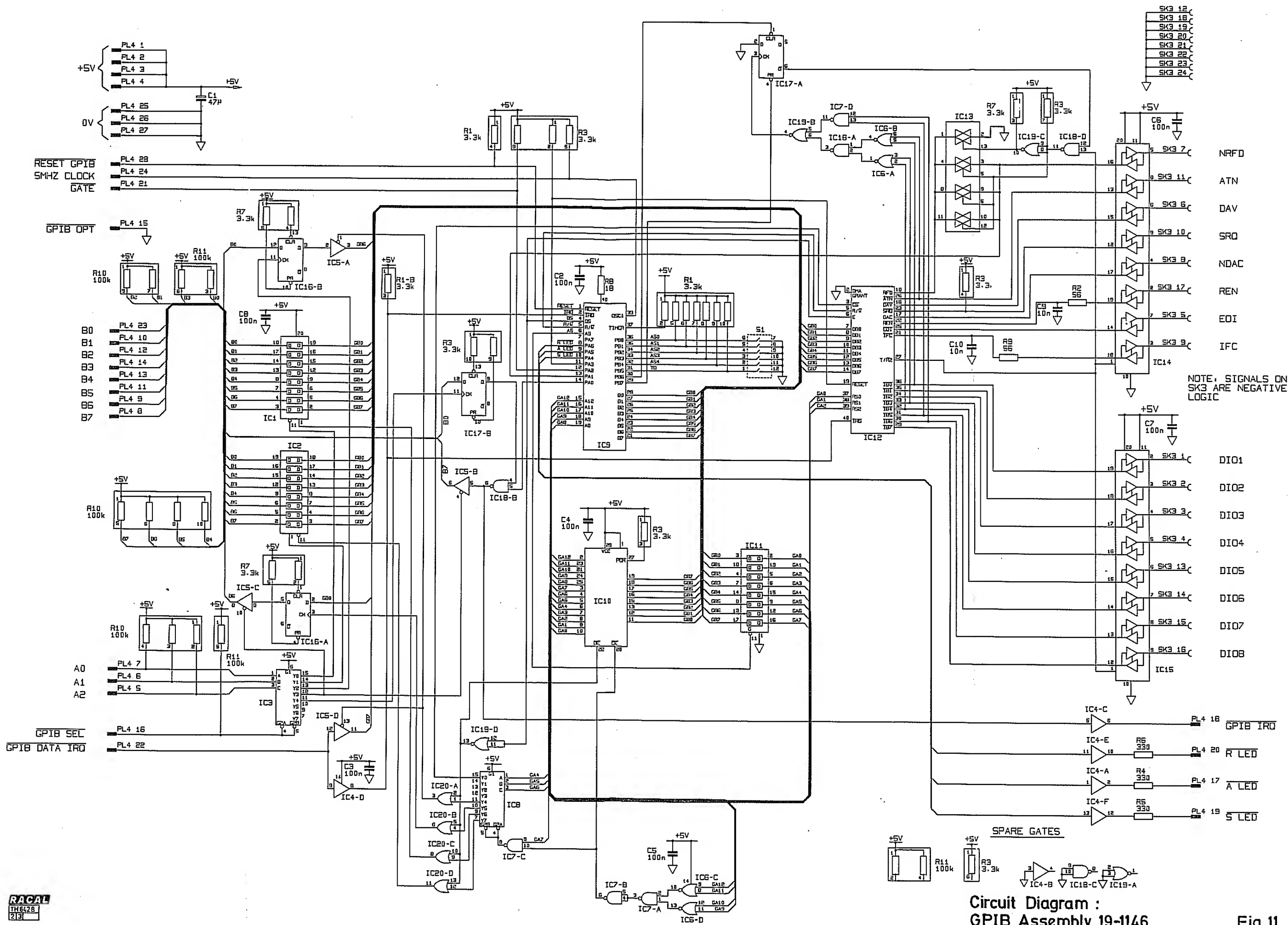
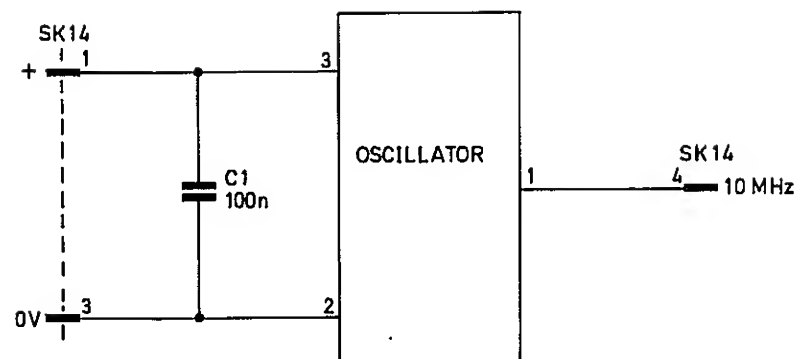
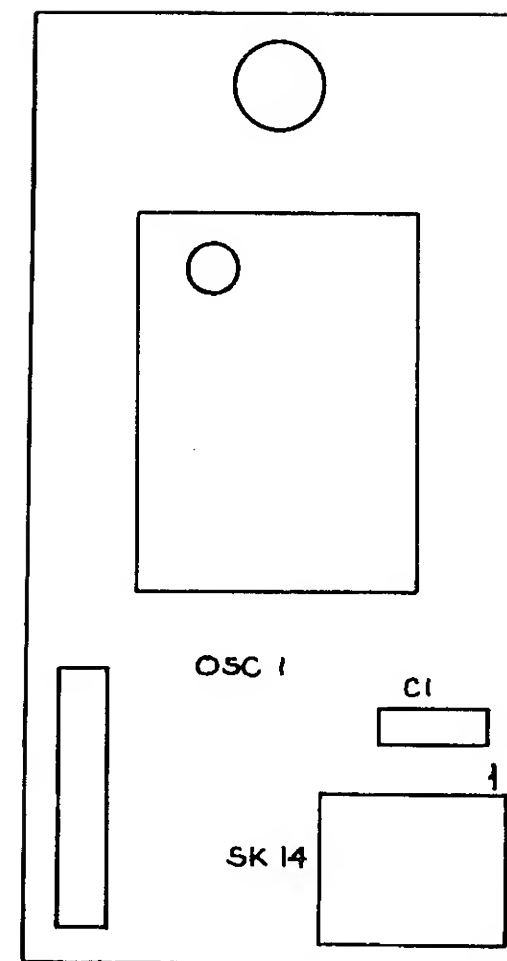


Fig 11



Circuit Diagram  
Oscillator Assembly 19-1147

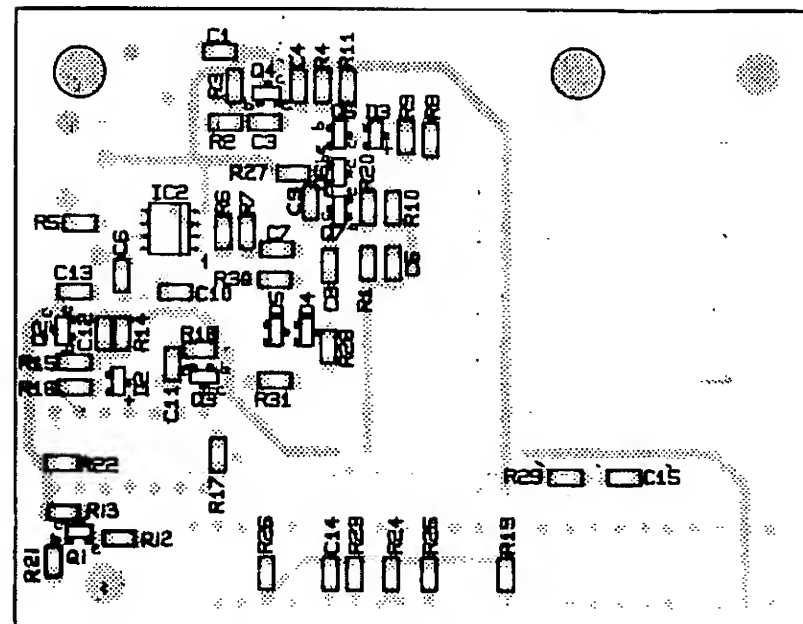
Fig.13



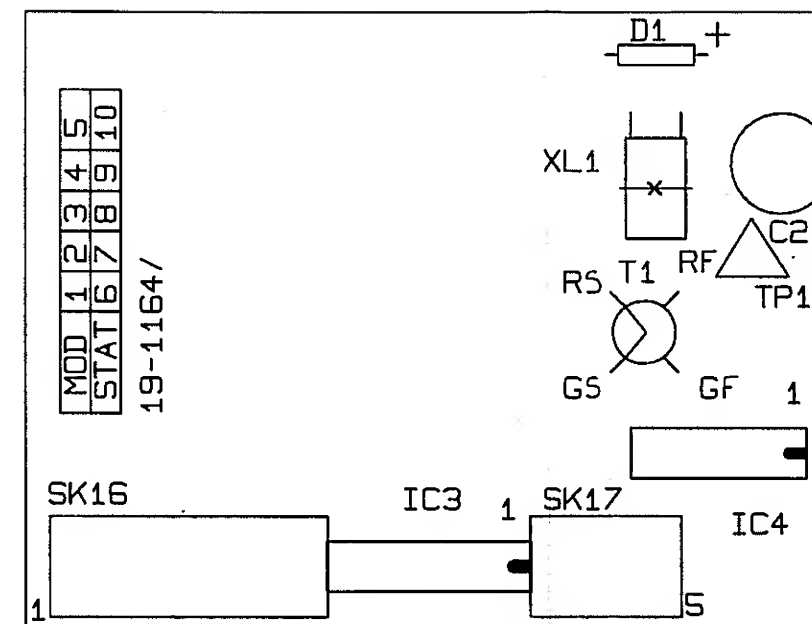
Component Layout:  
Oscillator Assembly 19-1147

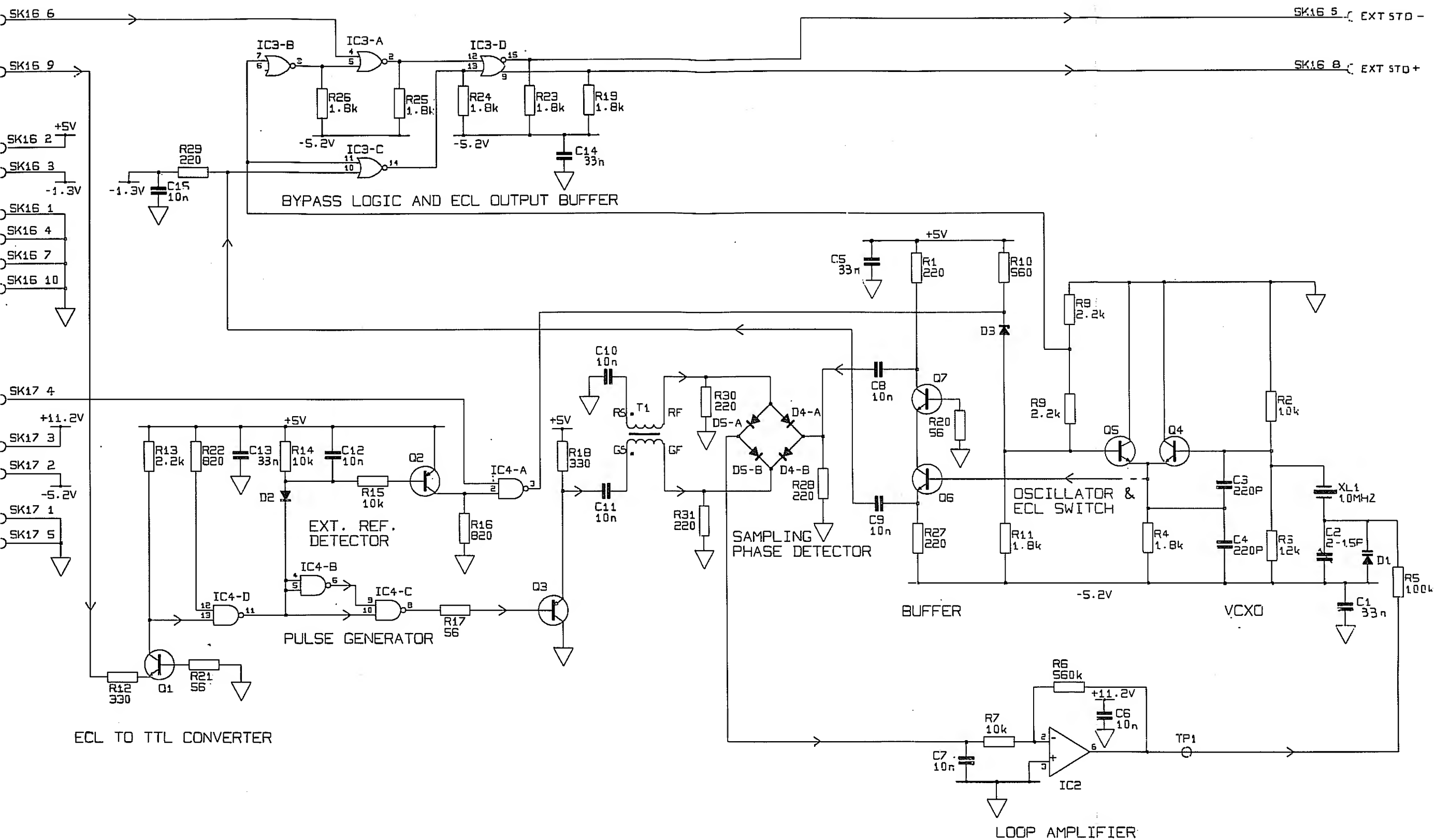
Fig.12

TRACKSIDE VIEW

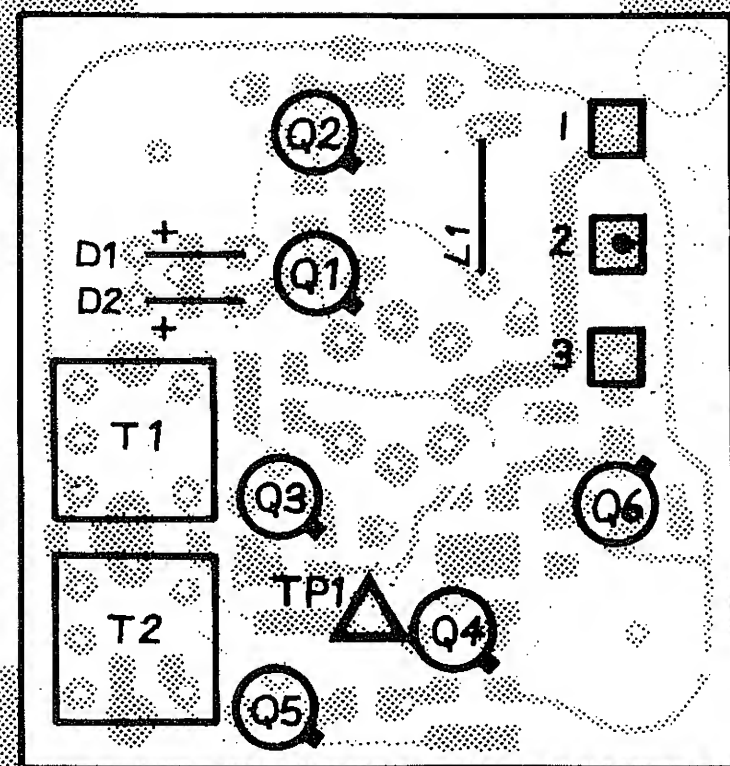


COMPONENT SIDE VIEW

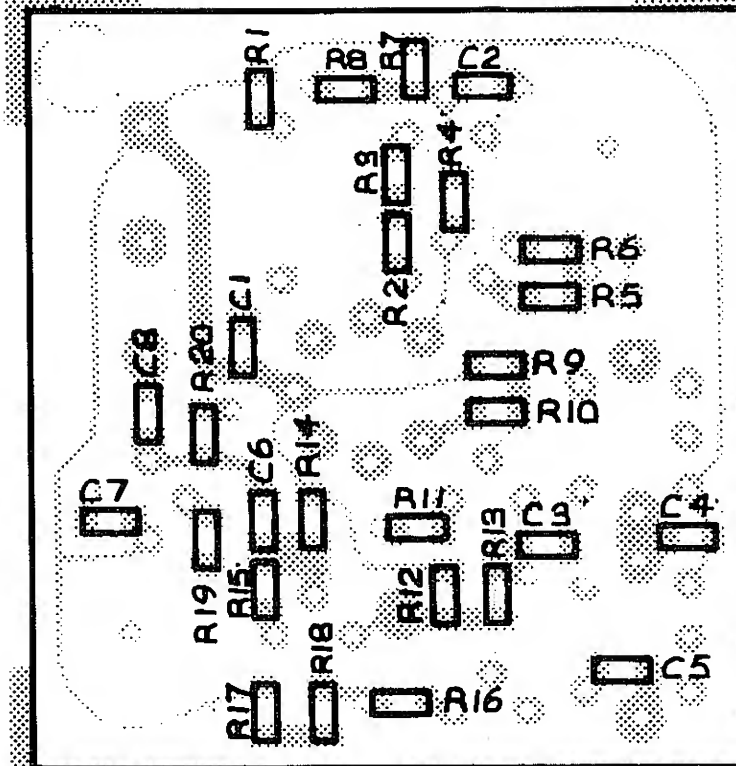




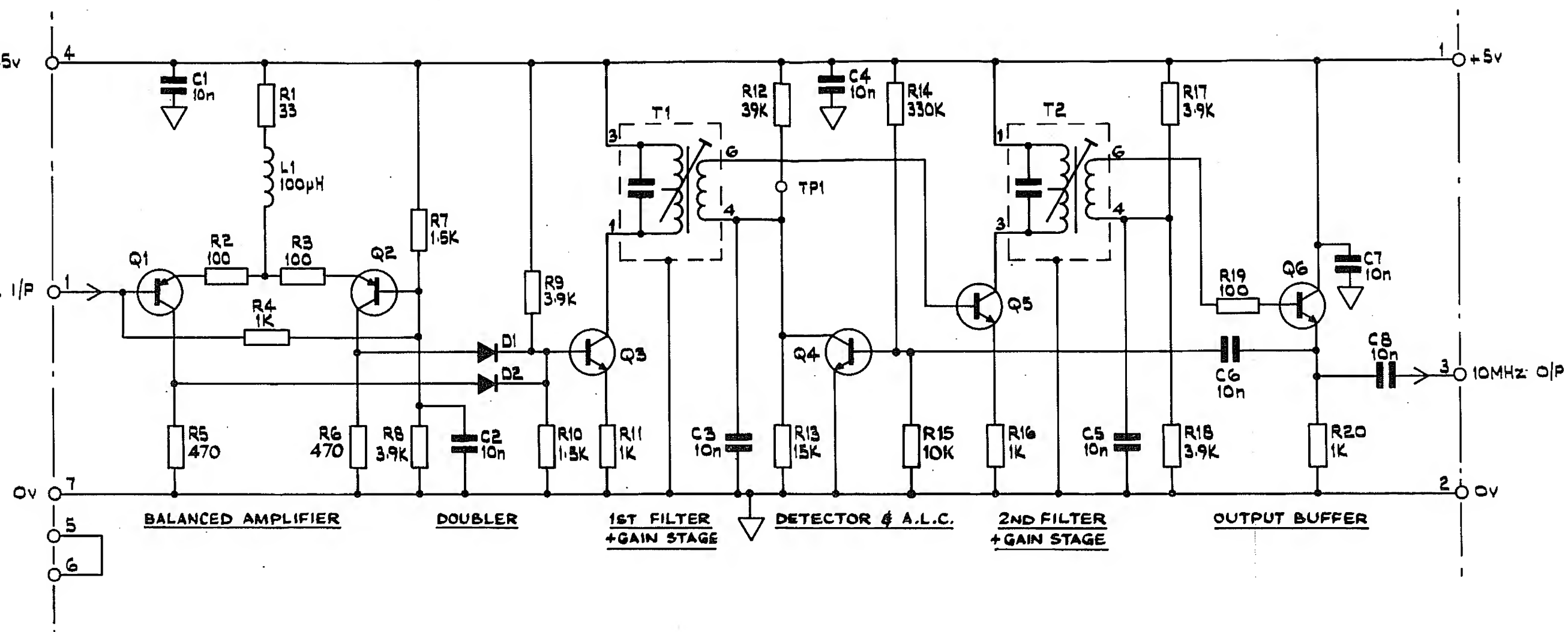
Circuit Diagram : Reference Frequency Multiplier Assembly 19-1164 Fig.15

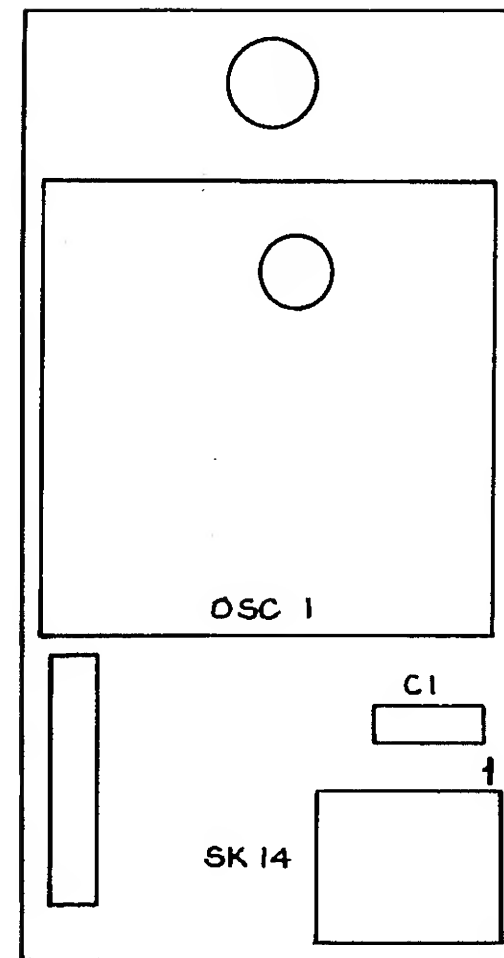


VIEWED FROM COMPONENT SIDE



VIEWED FROM TRACK SIDE

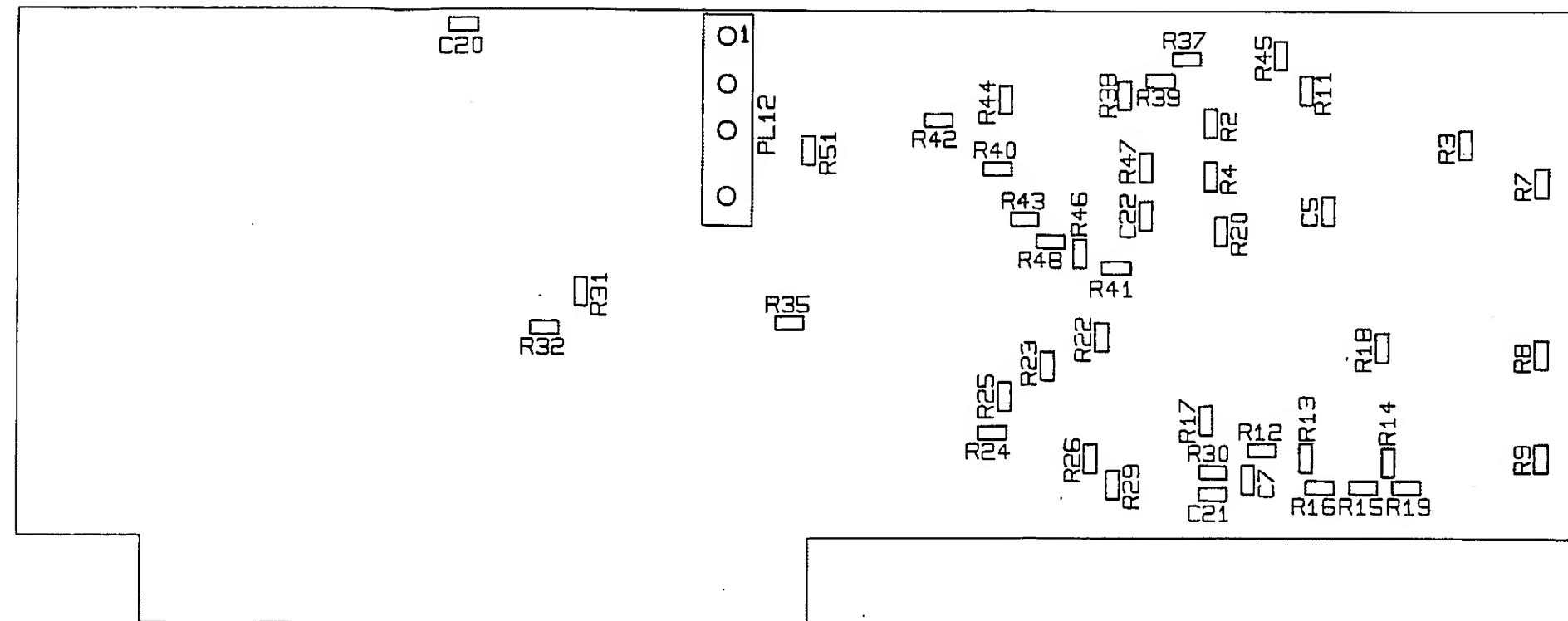




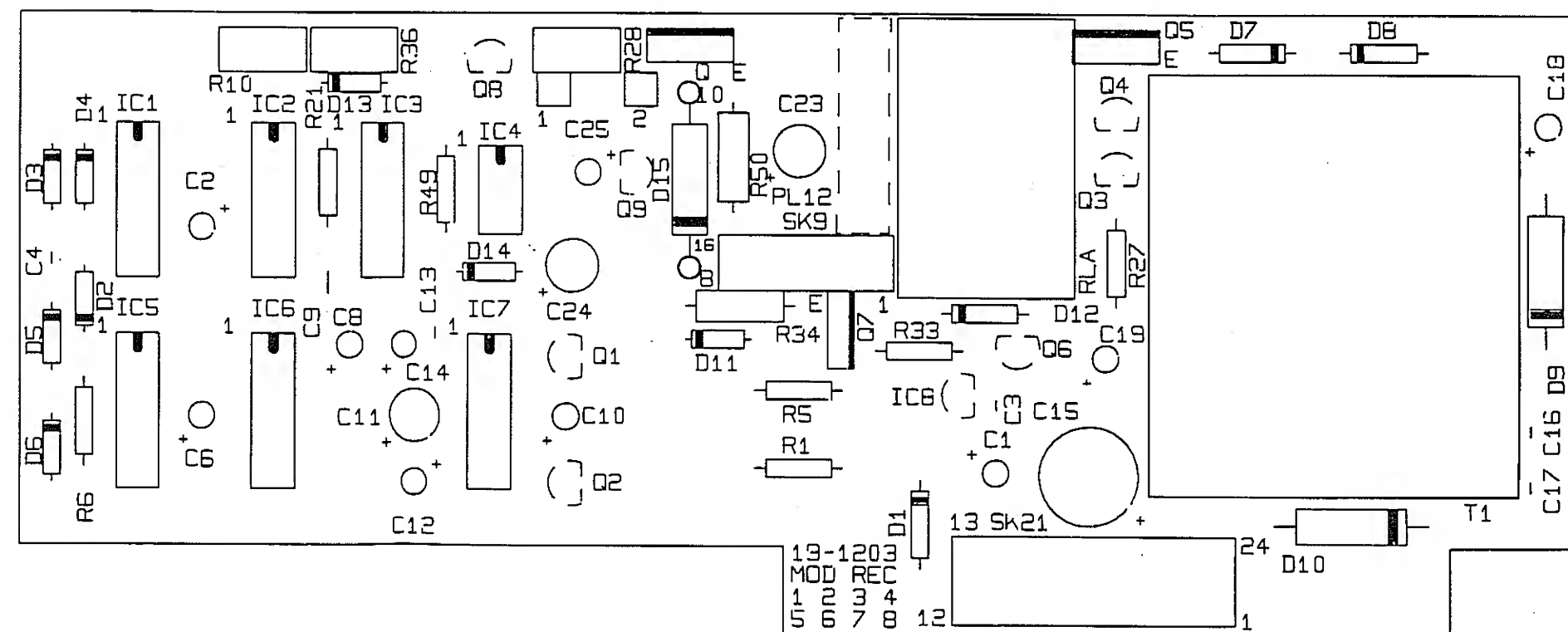
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Component Layout:  
Oscillator Assembly 19-1208

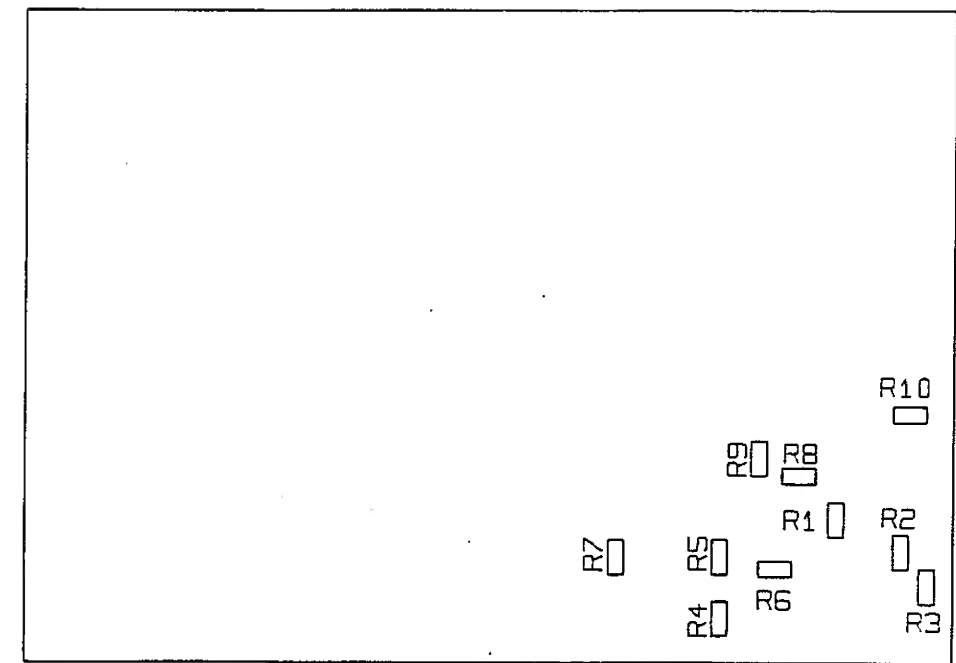


TRACKSIDE VIEW

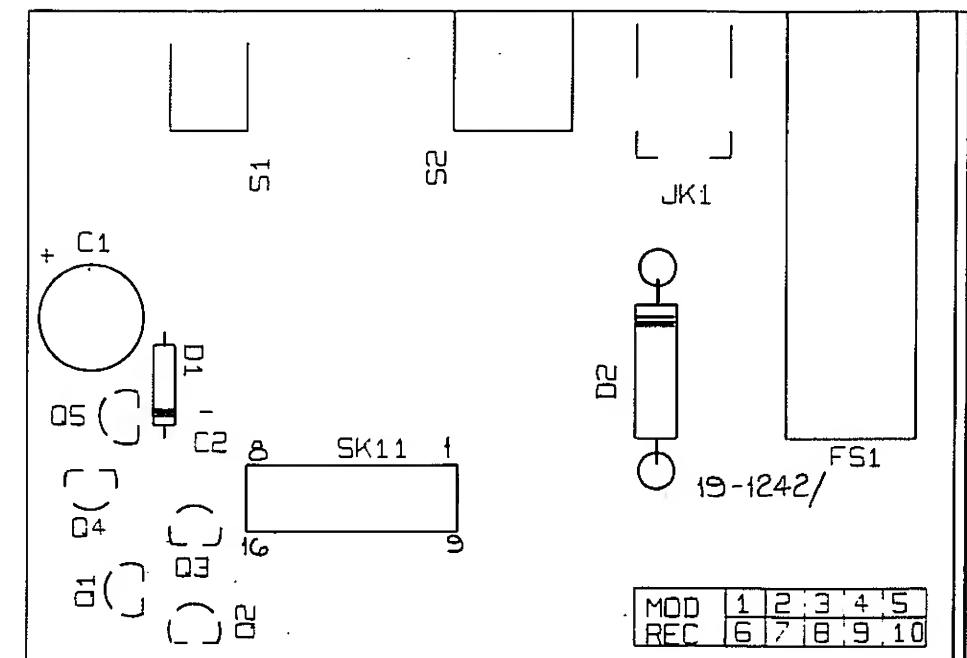


COMPONENT SIDE VIEW

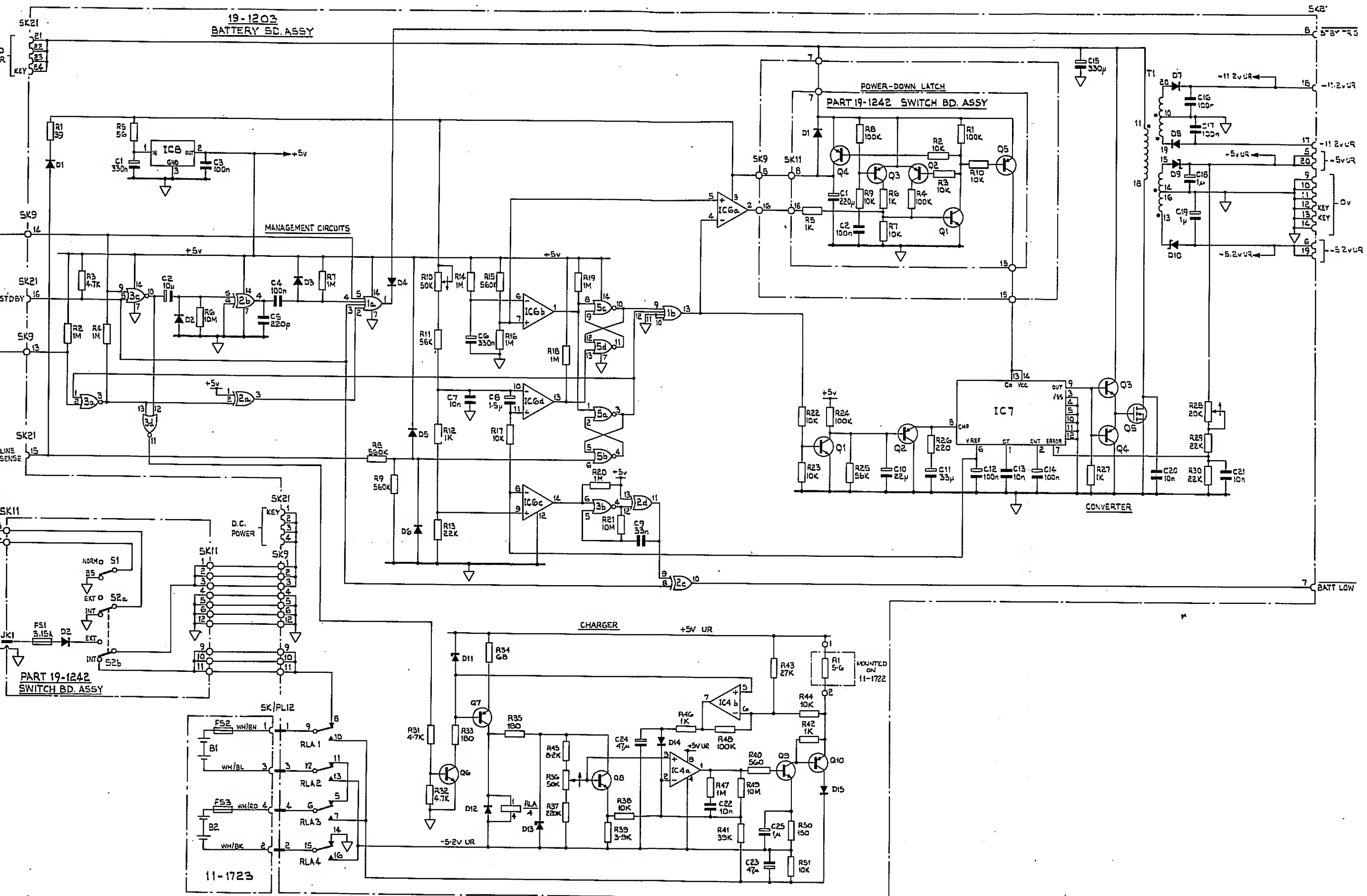




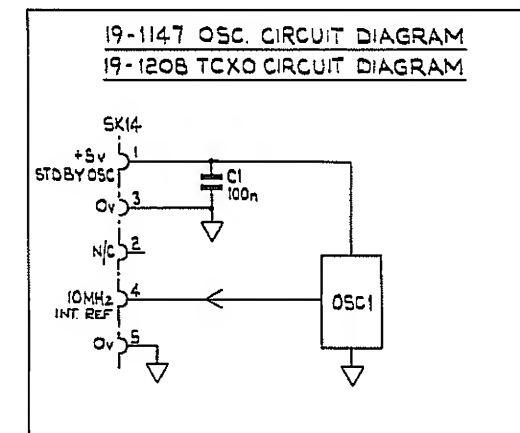
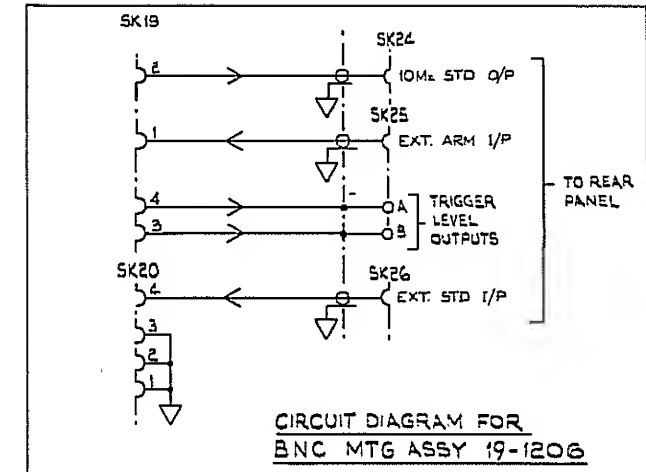
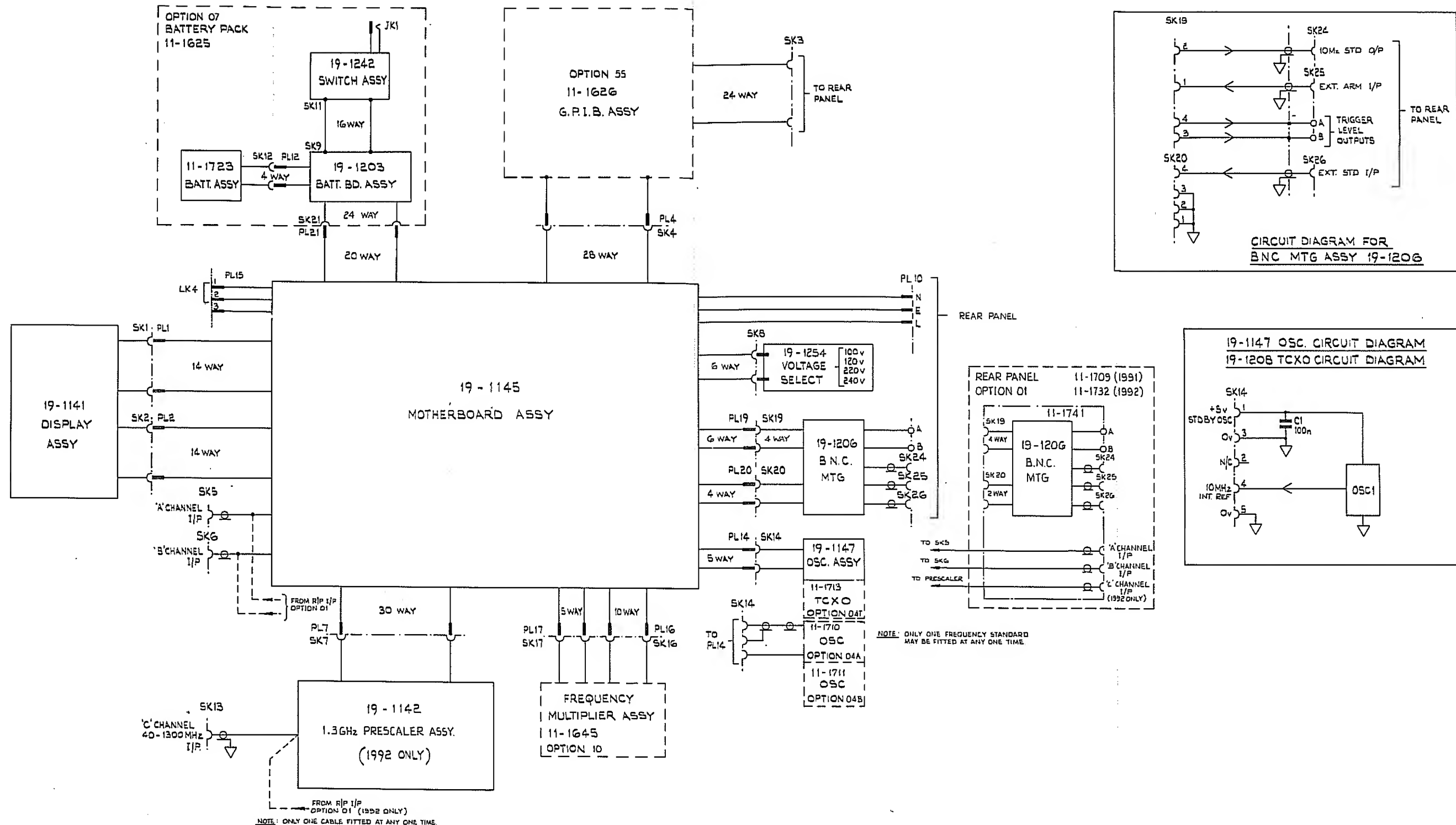
TRACKSIDE VIEW



COMPONENT SIDE VIEW



Circuit Diagram:  
Battery Pack Assembly 11-1625 Fig.21



PL1	SK1	14 WAY	PL/SK 2
PIN	PIN		PIN
14	14	-5.2v	2
13	13	0v	8
2	2	+5v	10
6	6	KEYBOARD ENABLE	5
7	7	KEYBOARD DATA	4
5	5	KEYBOARD EXTEND	9
12	12	PB0	13
1	1	PB1	12
11	11	PB2	1
8	8	PB3	14
4	4	GATE	11
3	3	A TRIG	7
		B TRIG	3
		MODE 2	6

24 WAY	SK3
	PIN
0v	12,18,19,20, 21,22,23,24
NRFD	7
ATN	11
DAV	6
SRQ	10
NDAC	8
REN	17
EQ1	5
IFC	9
DIO1	1
DIO2	2
DIO3	3
DIO4	4
DIO5	13
DIO6	14
DIO7	15
DIO8	16

26 WAY	SK/PL 4
	PIN
+5v	1,2,3,4
0v	25,26,27
RESET GPIB	28
5MHz CLOCK	24
GATE	21
GPIB OPT	15
B0	23
B1	10
B2	12
B3	14
B4	13
B5	11
B6	9
B7	8
A0	7
A1	6
A2	5
GPIB SEL	16
GPIB DATA TRG	22
GPIB TRG	18
A LED	20
A LED	17
S LED	19

4 WAY	PL/SK 12
	PIN
BATTERY 1 0v	3
BATTERY 1 +6v	1
BATTERY 2 +6v	4
BATTERY 2 0v	2

30 WAY	PL7	SK7
	PIN	PIN
+5v	23	23
-5.2v	6	6
0v	9,10, 18-22, 24-25, 26-30	4,19-22, 24-25, 26-30
1.3GHz	12	12
GATE	17	17
RESET	15	15
ST. SL. or LL	16	16
C/64	8	8
E/64	7	7
C/OP	5	5
DET	14	14
C LOW	11	11
RST2	13	13
PST1	1	1
C FITTED	2	2

16 WAY	SK9, 11
	PIN
0v	4,5,6,12
NORM/BS	14
EXT/INT	13
POWER EXT/INT	1,2,3
BATTERY	9,10,11

5 WAY	PL/SK 14
	PIN
+5v STDBY OSC	1
0v	3,5
10MHz INT. REF	4

10 WAY	PL16	SK16
	PIN	PIN
+5v STDBY OSC	2	2
-1.5v	3	3
0v	1,4,7,10,14,16	1,4,7,10,14,16
EXT REF -	6	6
EXT REF +	9	9
EXT STD -	5	5
EXT STD +	8	8

5 WAY	PL/SK 17
	PIN
+11.2v	3
-5.2v	2
0v	1,5
BYPASS	4

4 WAY	PL/SK 20
	PIN
0v	1,2,3
EXT REF	2

PL19 - 6 WAY	PL19	SK19
SK19 - 4 WAY	PIN	PIN
10MHz STD O/P	2	2
EXT ARM	1	1
TRIG LEVEL A	5	4
TRIG LEVEL B	6	3
+5v UR	4	4
-5.2v	3	3

PL21 - 20 WAY	PL21	SK21
SK21 - 24 WAY	PIN	PIN
DC POWER	1,2,3	1,2,3,4
SWITCHED DC POWER	18,19,20	21-24
-5v UR	5,16	6,19
+5v UR	4,17	5,20
LINE SENSE	12	15
-11.2v UR	15	18
-11.2v UR	14	17
0v	5,9,10,11	9-14
STDBY	13	16
BATT LOW	6	7
STDBY TRIG	7	8

Interconnections Fig.22